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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,134	09/29/2000	Stanton J. Taylor	10022/039	1622

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EXAMINER

CORRIELUS, JEAN M

ART UNIT PAPER NUMBER

2172

DATE MAILED: 03/20/2003

10

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/677,134

Applicant(s)

TAYLOR, STANTON J.

Examiner

Jean M Corrielus

Art Unit

2172

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 September 2000.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 6) ☐ Other:

Art Unit: 2172:

DETAILED ACTION

1. This office action is in response to the application filed on January 25, 2001, which claim 1-34 are presented for examination.

Information Disclosure Statement

2. The information disclosure statement (IDS) filed on July 16, 2001 (paper no.8) complies with the provisions of M.E.P.. § 609. It has been placed in the application file. The information referred to therein has been considered as to the merits. (See attached form).

Related Applications

3. The applicant is advised to provide the serial numbers and the statuses of the patent applications cited in the "Cross Reference to the Other Applications" section in page 8 of the specification.

Drawings

4. Applicants are required to furnish the formal drawings in response this office action. No new matter may be introduced in the required drawing. Failure to timely submit a drawing will result in **ABANDONMENT** of the application.

Art Unit: 2172:

Claim Objections

5. Claim 28 is objected to because of the following informalities: claim 28, line 5 after "network;" please delete "and". Appropriate correction is required.

2

Claim Rejections - 35 U.S.C. § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1-2, 10, 14-15, 18, and 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Underwood US Patent no. 6,523,027.

As to claim 1, Underwood discloses a system for providing an interface between a first server and a second web and application server. In particular, Underwood discloses the claimed "a plurality

Art Unit: 2172:

of database servers” (items 4710 of fig.47); “a plurality of data stores each in communication with one of the database servers, wherein the database servers are operable to access the data stores” (fig.47); “ a client communicating with the database servers, wherein each of the data stores includes a predetermined portion of the data used within the netcentric computing system” (item 4702 of fig.47); and “a webserver in communicating with the client to act as the primary interface between and the client and the database servers” (item 4706 of fig.47).

As to claim 2, Underwood discloses “wherein the client communicates with the database servers using a web browser application” (item 4708 of fig. 47).

As to claims 10, 14-15, 18, and 23, the limitations of claims 10, 14-18, and 23 have been noted in the rejection of claims 1-2 above. They are, therefore, rejected under the same rationale.

8. Claims 28-41 are rejected under 35 U.S.C. 102(e) as being anticipated by Bowman Amuah (hereinafter “Amuah”) US Patent no. 6,529,948.

As to claim 28, Amuah discloses the claimed “storing data in a central database” (item 9706 of fig.97); “replicating a predetermined portion of the data to create replica data”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67); “transferring the replica data to a corresponding local database using a network”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67); “updating the data in the central database and the local

Art Unit: 2172:

database”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67); and “accessing the data and the replica data using the network and a webserver”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 29, Amuah discloses the claimed “the act of updating the data unidirectional such that the local database is read only and updates to the replica data are performed in the central database” (col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 30, Amuah discloses the claimed “requesting an update to the replica data within the local database is read only and updates to the replica data are performed in the central database”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 31, Amuah discloses the claimed “creating a snapshot of the data within the central database that corresponds to the replica data when the replica data is transferred”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 32, Amuah discloses the claimed “subsequently updating the local database with replica data that is replicated from the central database following an update of the data in the central database that corresponds to the snapshot”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

Art Unit: 2172:

As to claim 33, Amuah discloses the claimed “publishing the replica data when a pre-determined threshold is reached”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 34, Amuah discloses the claimed “monitoring the publication of replica data with a local database server, and updating the corresponding local database with replica data when the replica data that was published is an update to the replica data in the local database””(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 35, Amuah discloses the claimed “updating the central database and the local database using bi-directional replication”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 36, Amuah discloses the claimed “updating the central database and the local database using bi-directional replication”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 37, Amuah discloses the claimed “updating the central database and the local database using selective replication”(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

Art Unit: 2172:

As to claim 38, Amuah discloses the claimed "updating the central database with a remote log-on approach"(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 39, Amuah discloses the claimed "updating the central database with a local checkout approach"(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 40, Amuah discloses the claimed "updating the central database with a local checkout approach"(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

As to claim 41, Amuah discloses the claimed "updating the central database and the database using a local strategy"(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

Claim Rejections - 35 U.S.C. § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was

Art Unit: 2172:

commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 3-9, 11-13, 16-17, 19-22 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Underwood US Patent no. 6,523,027 in view of Bowman Amuah (hereinafter "Amuah") US Patent no. 6,529,948.

As to claims 3-9, Underwood discloses substantially the invention as claimed. However, Underwood does not explicitly disclose the use "wherein the data is horizontally segmented to form the predetermined portion of the data included in each of the data stores"; wherein the data is horizontally segmented to form the predetermined portion of the data included in each of the data stores; "wherein the data is segmented horizontally and vertically to form the predetermined portion of the data included in each of the data stores"; wherein the predetermined portion of the data representing all of the data in the netcentric computing system resided on at least one central data store.

On the other hand, Amuah discloses the use "wherein the data is horizontally segmented to form the predetermined portion of the data included in each of the data stores" (fig.46); "wherein the data is vertically segmented to form the predetermined portion of the data included in each of the data stores" (fig.46) and "wherein the data is segmented horizontally and vertically to form the

Art Unit: 2172:

predetermined portion of the data included in each of the data stores" (fig.46); discloses the claimed "wherein the predetermined portion of the data representing all of the data in the netcentric computing system resided on at least one central data store" (col.23, lines 58-67; col.25, line 55-col.26 line 55; fig.84); "wherein a predetermined portion of the data is replicated to form the predetermined portion of the data residing on at least one local data store" (col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67); discloses the claimed "wherein the predetermined portion of the data residing on the at least one local data store is segmented" (col.23, lines 58-67; col.25, line 55-col.26 line 55; fig.14).

Therefore, it would have been obvious to one of ordinary skill in the art of data processing, at the time the present invention was made to combine the teachings of the cited references. One having ordinary skill in the art would have been motivated to utilize the teachings of Amuah into the system disclosed by Underwood because such combination would allow Underwood's system the enhanced capability of increasing data interaction across the network, thereby providing efficient retrieval of related objects.

As to claims 11-13, 16-17, 19-22 and 24-26, the limitations of claims 11-13, 16-17, 19-22 and 24-26 have been noted in the rejection of claims 3-9 above. They are, therefore, rejected under the same rationale. In addition, Amuah discloses the claimed wherein "the replication is by bi-directional and unidirectional"(col.23, lines 58-67; col.25, line 55-col.26 line 55; col.48, line 60-col.50, line 67).

Art Unit: 2172:

Conclusion

II. Any inquiry concerning this communication or early communication from the Examiner should be directed to **Jean M. Corrielus** whose telephone number is (703) 306-3035. The Examiner can normally be reached on the weekdays from 7:00am to 5:30pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, **Kim Vu**, can be reached on (703)305-4393

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 746-7236, (for formal communications intended for entry) **Or:**

(703)746-7240 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to **Crystal Park II, 2021 Crystal Drive, Arlington.**

VA., Sixth Floor (Receptionist).



Jean M. Corrielus

Patent Examiner

March 18, 2003